

1997

Industrial Hygiene

Workplace Safety

Regulatory Compliance

Training

Laboratory Services

**ASBESTOS REINSPECTION
SPOKANE
INTERNATIONAL AIRPORT
Air Traffic Control Tower
Spokane, Washington**



Prezant

**ASBESTOS REINSPECTION
SPOKANE
INTERNATIONAL AIRPORT
Air Traffic Control Tower
Spokane, Washington**

Prepared for:

Federal Aviation Administration
Northwest Mountain Region
1601 Lind Avenue, S.W.
Renton, WA 98055

**Prezant Associates, Inc. • 330 Sixth Ave., North, Suite 200 • Seattle, WA 98109
Phone: (206) 281-8858, Fax: (206) 281-8922**

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I: FACILITY NAME: Spokane International Airport ATCT, Spokane, WA

II INTRODUCTION:

This facility has had an major renovation since the RMCi Asbestos Survey Inventory was conducted. The following functional spaces were added to the facility: QATS office, PPS office, Admin. office, AUS office, Smoking room, Locker room, Supply room, TV room, Corridor 3, Corridor 4 and the addition to the TRACON equipment room.

Rooms that were not added but were renovated and renamed include the AF technicians room (formerly Unit Chief's office), AF-Radar Arts Manager office (formerly AFM, and SFO offices), ATM office (formerly AATM office), AATM office (formerly EPDS Office, "Office", and Smoking room), Corridor 4 (formerly part of the Smoking room), Breakroom storage closet (formerly Janitor's closet), Training room (formerly Locker room), Mechanical room (formerly Boiler room) and AF Workshop (formerly Electronic Storage room). This report references the most recent room names. Five new materials were sampled none of which contained detectable amounts of asbestos. This re-inspection was conducted on July 22 and 23, 1997. There are fourteen pages of additional field notes and laboratory results that accompany this report.

III: NEW MATERIALS:

Material Information:

Description:	Carpet mastic
Sample Number:	SIA-B-1-01
Sample Location (s):	First floor ATM office, where Southern and Western walls meet.
Material Extent:	ATM office, Corridor 1, Corridor 2, AATM office, Training room, NATCA office, Reception Area, Supervisors office, AF Technicians office, TV room, Corridor 3, Locker room, Smoking room, Corridor 4, AO office, AUS office, QATS office, PPS office, Elevator car, NAVCOM office 1, NAVCOM office 2, NAVCOM office 3, Electronic equipment room, Floor 6 Conference room and Cab
Quantity: (include units):	5,800 sq. ft.
Friability Assessment:	Non-friable
Condition Assessment:	Good
Laboratory Result:	No detectable asbestos

Material Information:

Description:	2 ft x 2 ft Ceiling tile with dots and fissures
Sample Number:	SIA-B-2-01
Sample Location (s):	First floor ATM office, where North and East walls meet at ceiling
Material Extent:	ATM office, AF Radar/Arts Manager office, Breakroom, Entry, AATM office, Training room, NATCA office, Reception room, Supervisors office, Tracon Equipment room, AF technicians office, Storage closet, Lounge/TV room, Corridor 3, Locker room, Smoking room, Corridor 4, AO office, AUS office, QATS office, PPS office, Tower Breakroom, NAVCOM office 1, NAVCOM office 2, NAVCOM office 3, AF workshop, Floor 5 Storage room, Computer based instruction, Floor 6 Conference room, Floor 6 Conference room storage room
Quantity: (include units):	6,400 sq. ft.
Friability Assessment:	Friable
Condition Assessment:	Good
Laboratory Result:	No detectable asbestos

Material Information:

Description:	White cove base mastic
Sample Number:	SIA-B-3-01
Sample Location (s):	First floor Supply closet, at floor along North wall, 4ft West of East wall
Material Extent:	ATM office, AF Radar/Arts Manager office, Breakroom, Entry, AATM office, Training room, NATCA office, Reception room, Supervisors office, Tracon Equipment room and AF technicians office, Breakroom Storage closet, Corridor 2, Storage closet, Lounge/TV room, Corridor 3, Locker room, Smoking room, Corridor 4, AO office, AUS office, QATS office, PPS office, NAVCOM office 1, NAVCOM office 2, NAVCOM office 3, Floor 2 Stair landing, Secretaries office, SFOR Managers office, Floor 3 Stair landing, Floor 3 Vestibule, Electronic Equipment room, Floor 4 Stair landing, Floor 4 Vestibule, AF Workshop, Floor 5 Stair landing, Floor 5 Storage room, Computer based instruction, Floor 5 Vestibule, Floor 6 Conference room, Floor 6 Conference storage room, Lavatory 1, Lavatory 2, Floor 6 Stair landing, Floor 6 Vestibule, Stair to Cab, Cab
Quantity: (include units):	2,400 linear ft.
Friability Assessment:	Non-Friable
Condition Assessment:	Good
Laboratory Result:	No detectable asbestos

Material Information:

Description:	White 12" x12" floor tile with blue streaks and mastic
Sample Number:	SIA-B-4-01
Sample Location (s):	First floor, Supply closet, at floor along North wall, 3ft West of East wall
Material Extent:	Breakroom, Entry, Tracon Equipment room, Breakroom storage closet, Corridor 2, Storage closet, Floor 2 Stair landing, Floor 3 Stair landing, Floor 3 Vestibule, Electronic Equipment room, Floor 4 Stair landing, Floor 4 Vestibule, AF Workshop, Floor 5 Stair landing, Floor 5 Storage room, Floor 5 Vestibule, Floor 6 Conference storage room, Lavatory 1, Lavatory 2, Floor 6 Stair landing, Floor 6 Vestibule, Stair to Cab
Quantity: (include units):	2,500 sq. ft.
Friability Assessment:	Non-Friable
Condition Assessment:	Good
Laboratory Result:	No detectable asbestos

Material Information:

Description:	Wallboard
Sample Number:	SIA-B-5-01 through SIA-5-07
Sample Location (s):	SIA-B-5-01, Floor 1, Supply closet, 0' S of N wall, 3' E of W wall, SIA-B-5-02, Floor 1, Locker room, 0' N of S wall, 4' E of W wall, SIA-B-5-03, Floor 1, TV room, 0' E of W wall, 8' S of N wall, SIA-B-5-04, Floor 1, Smoking room, 0' E of W wall, 3' N of S wall, SIA-B-5-05, Floor 1, Smoking room, 0' S of N wall, 4' W of E wall, SIA-B-5-06, Floor 1, AUS office, 0' N of S wall, 1' E of W wall, SIA-B-5-07, Floor 1, Breakroom supply closet, 0' E of W wall, 2' S of N wall
Material Extent:	Tracon Equipment room, Lounge/TV room, Corridor 3, Locker room, Smoking room, Corridor 4, AO office, AUS office, QATS office, PPS office
Quantity: (include units):	4,900 sq. ft.
Friability Assessment:	Non-Friable
Condition Assessment:	Good
Laboratory Result:	No detectable asbestos

IV: PREVIOUSLY IDENTIFIED FRIABLE ACM ASSESSMENT:

Material Information: Heat exchanger insulation, Floor 1, Mechanical room,

Change in Quantity?	Yes, this material has been abated in these areas.
Change in Condition?	N/A

Material Information: Straight run pipe insulation, Floor 1, Mechanical Room, Elevator
Equipment Room, Men's Restroom, Women's Restroom

Change in Quantity?	Yes, this material has been abated in these areas, and replaced with fiberglass insulation.
Change in Condition?	N/A

V: PREVIOUSLY IDENTIFIED NON-FRIABLE ACM ASSESSMENT:

Material Information: White 1ft x 1ft floor tile with grey streaks and mastic, Floor 1, TELCO room

Change in Quantity?	No
Change in Condition?	Yes, these tiles are damaged. Approximately ten tiles are damaged.

Material Information: White 1ft x 1ft floor tile with grey streaks and mastic, Floor 1, Tracon equipment room

Change in Quantity?	No
Change in Condition?	Yes, three tiles are damaged. The damaged area is near the west entry.

Material Information: White 1ft x 1ft floor tile with grey streaks and mastic, Floor 1, Tracon equipment room

Change in Quantity?	Yes, five tiles are missing
Change in Condition?	Yes, remaining tiles are damaged. Tiles are loose and cracked

VI: AIR SAMPLING:

Sample Number	Location	Flow Rate (L/min)	Liters	Results (f/cc)
FAA-SIA-01	Floor 1, Engine Generator room, 0ft S of N wall, 3ft E of W wall, 4ft above the floor	13.5	1485	0.002
FAA-SIA-02	Floor 1, TRACON Equipment room, 4ft W of E wall, 20ft S of N wall, 4ft above the floor	13.5	1471.5	<0.002
FAA-SIA-03	Floor 1, Supervisors office, 0ft S of N wall, 3ft E of W wall, 4ft above the floor	13.5	1363.5	<0.002

AHERA BUILDING INSPECTOR: Mike Schindler

SIGNATURE: 

CERTIFICATION NUMBER: 97--0653

APPENDIX A

BULK SAMPLE RESULTS



330 6th Ave. North, Suite 200, Seattle, WA 98109

OFFICE: (206) 281-8858 FAX: (206) 281-8922

BULK ASBESTOS FIBER ANALYSIS

NVLAP #1886

PAI Batch Number: 97 - 3035.00

Client: FAA Northwest Mountain Region
Address: 1601 Lind Avenue SW
Renton WA 98055-4056
Attn: Mr. David Power
Project: Spokane International Airport ATCT
Spokane, WA
Project #: xxxx

Number of samples: 11

REGULAR

Sample Location: Spokane International Airport ATCT
Spokane, WA

Sample #: SIA-B-1-01
Lab #: 97080002

Sample Description: Yellow/green resinous material

NON-FIBROUS COMPONENTS

98 % Resin/calcite/binder

NON-ASBESTOS FIBROUS COMPONENTS

2 % Cellulose fibers

ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

Comments:

Sampled by: Mike Schindler of Prezant Associates, Inc.
Analyzed by: Cathy Honeywell Date: 08/06/97
Reviewed By: Gail Gislason Date: 08/06/97

*Gail Gislason, Laboratory Director

* If samples are not homogeneous, then subsamples of the components were analyzed separately and labeled as L1, L2,... All bulk samples are analyzed using EPA method 600/R-93/116, "Method for Determination of Asbestos in Bulk Building Materials". This report relates only to the items tested. If samples are not collected by Prezant Assoc. personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other analyses in-house and other laboratories for quality assurance and verification. This report shall not be reproduced except in full, without written approval of Prezant Assoc. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.



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Attn: Mr. David Power
Project: **Spokane International Airport ATCT**
Spokane, WA
Project #: **xxxx**

Number of samples: 11

REGULAR

Sample Location: **Spokane International Airport ATCT**
Spokane, WA

Sample #: **SIA-B-2-01**
Lab #: **97080003**

Sample Description: **Tan fibrous material w/ white paint**

NON-FIBROUS COMPONENTS

5 % **Paint**
60 % **Perlite**

NON-ASBESTOS FIBROUS COMPONENTS

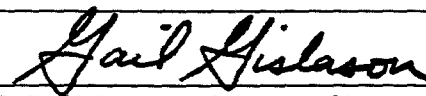
35 % **Cellulose fibers**

ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

Comments:

Sampled by: **Mike Schindler** of **Prezant Associates, Inc.**
Analyzed by: **Cathy Honeywell** Date: **08/06/97**
Reviewed By: **Gail Gislason** Date: **08/06/97**


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Attn: Mr. David Power
Project: **Spokane International Airport ATCT**
Spokane, WA
Project #: **xxxx**

Number of samples: 11

REGULAR

Sample Location: **Spokane International Airport ATCT**
Spokane, WA

Sample #: **SIA-B-3-01**
Lab #: **97080004**

Sample Description: **White resinous material**

NON-FIBROUS COMPONENTS

83 % Resin/calcite/binder

NON-ASBESTOS FIBROUS COMPONENTS

15 % Cellulose fibers

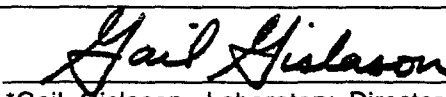
2 % Polyethylene

ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

Comments:

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Spokane, WA
Project #: **xxxx**

Number of samples: 11

REGULAR

Sample Location: **Spokane International Airport ATCT**
Spokane, WA

Sample #: **SIA-B-4-01**
Lab #: **97080005**

Sample Description: **L-1: White tile**
L-2: Yellow resinous material

NON-FIBROUS COMPONENTS

100% Calcite filler/binder L-1
>82% Resin/binder L-2
15% Fine particles L-2

NON-ASBESTOS FIBROUS COMPONENTS


2% Cellulose fibers L-2
<1% Brucite L-2

ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

Comments:

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Attn: Mr. David Power
Project: Spokane International Airport ATCT
Spokane, WA
Project #: xxxxx

Number of samples: 11

REGULAR

Sample Location: Spokane International Airport ATCT
Spokane, WA

Sample #: SIA-B-5-01
Lab #: 97080006

Sample Description: L-1: Beige/white fine plaster-like material w/ white paint
L-2: Tan fibrous material
L-3: White powdery material

NON-FIBROUS COMPONENTS

15 % Mica L-1
84 % Fine particles L-1
80 % Gypsum/binder L-3

NON-ASBESTOS FIBROUS COMPONENTS

1 % Cellulose fibers L-1
100 % Cellulose fibers L-2
20 % Glass/cellulose fibers L-3

ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

Comments:

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Reviewed By: Gail Gislason Date: 08/06/97

Gail Gislason
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Renton WA 98055-4056
Attn: Mr. David Power
Project: Spokane International Airport ATCT
Spokane, WA
Project #: xxxx

Number of samples: 11

REGULAR

Sample Location: Spokane International Airport ATCT
Spokane, WA

Sample #: SIA-B-5-02
Lab #: 97080007

Sample Description: L-1: Beige/white fine plaster-like material w/ white paint
L-2: Tan fibrous material
L-3: White powdery material

NON-FIBROUS COMPONENTS

15% Mica L-1
85% Fine particles L-1
80% Gypsum/binder L-3

NON-ASBESTOS FIBROUS COMPONENTS

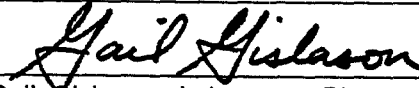
100% Cellulose fibers L-2
20% Glass fibers L-3

ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

Comments:

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Reviewed By: Gail Gislason Date: 08/06/97


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Renton WA 98055-4056
Attn: Mr. David Power
Project: Spokane International Airport ATCT
Spokane, WA
Project #: xxx

Number of samples: 11

REGULAR

Sample Location: Spokane International Airport ATCT
Spokane, WA

Sample #: SIA-B-5-03
Lab #: 97080008

Sample Description: L-1: Tan/white fibrous material
L-2: White powdery material

NON-FIBROUS COMPONENTS

5 % Fine particles L-1
80 % Gypsum/binder L-2

NON-ASBESTOS FIBROUS COMPONENTS

95 % Cellulose fibers L-1
15 % Glass fibers L-2
5 % Cellulose fibers L-2

ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

Comments:

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Attn: Mr. David Power
Project: Spokane International Airport ATCT
Spokane, WA
Project #: xxxx

Number of samples: 11

REGULAR

Sample Location: Spokane International Airport ATCT
Spokane, WA

Sample #: SIA-B-5-04
Lab #: 97080009

Sample Description: L-1: Beige/white fine plaster-like material w/ white paint
L-2: Tan fibrous material
L-3: White powdery material

NON-FIBROUS COMPONENTS

15% Mica L-1
85% Fine particles L-1
88% Gypsum/binder L-3

NON-ASBESTOS FIBROUS COMPONENTS

100% Cellulose fibers L-2
2% Cellulose fibers L-3
10% Glass fibers L-3

ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

Comments:

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Gail Gislason
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Spokane, WA
Project #: xxxx

Number of samples: 11

REGULAR

Sample Location: Spokane International Airport ATCT
Spokane, WA

Sample #: SIA-B-5-05
Lab #: 97080010

Sample Description: L-1: White plaster-like material w/ white paint
L-2: Tan/white fibrous material
L-3: White powdery material

NON-FIBROUS COMPONENTS

40% Fine particles/Mica L-1
60% Paint L-1
80% Gypsum/binder L-3

NON-ASBESTOS FIBROUS COMPONENTS

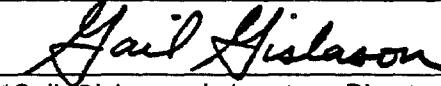
100% Cellulose fibers L-2
20% Glass fibers L-3

ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

Comments:

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Project: Spokane International Airport ATCT
Spokane, WA
Project #: xxx

Number of samples: 11
REGULAR

Sample Location: Spokane International Airport ATCT
Spokane, WA

Sample #: SIA-B-5-06
Lab #: 97080011

Sample Description: L-1: Tan/white fibrous material w/ white paint
L-2: White powdery material

NON-FIBROUS COMPONENTS

10% Paint/fine particles L-1
82% Gypsum/binder L-2

NON-ASBESTOS FIBROUS COMPONENTS


90% Cellulose fibers L-1
3% Cellulose fibers L-2
15% Glass fibers L-2

ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

Comments:

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Reviewed By: Gail Gislason Date: 08/06/97


*Gail Gislason, Laboratory Director

* If samples are not homogeneous, then subsamples of the components were analyzed separately and labeled as L1, L2,... All bulk samples are analyzed using EPA method 800/R-93/116, "Method for Determination of Asbestos in Bulk Building Materials". This report relates only to the items tested. If samples are not collected by Prezant Assoc. personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other analyses in-house and other laboratories for quality assurance and verification. This report shall not be reproduced except in full, without written approval of Prezant Assoc. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.



330 6th Ave. North, Suite 200, Seattle, WA 98109

OFFICE: (206) 281-8858 FAX: (206) 281-8922

BULK ASBESTOS FIBER ANALYSIS

NVLAP #1886

PAI Batch Number: 97 - 3035.00

Client: FAA Northwest Mountain Region
Address: 1601 Lind Avenue SW
Renton WA 98055-4056
Attn: Mr. David Power
Project: Spokane International Airport ATCT
Spokane, WA
Project #: xxxx

Number of samples: 11

REGULAR

Sample Location: Spokane International Airport ATCT
Spokane, WA

Sample #: SIA-B-5-07
Lab #: 97080012

Sample Description: L-1: White fine plaster-like material w/ gray paint
L-2: Tan fibrous material
L-3: White powdery material

NON-FIBROUS COMPONENTS

75 % Paint L-1
25 % Fine particles/Mica L-1
80 % Gypsum/binder L-3

NON-ASBESTOS FIBROUS COMPONENTS

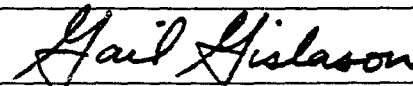
100 % Cellulose fibers L-2
5 % Cellulose fibers L-3
15 % Glass fibers L-3

ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

Comments:

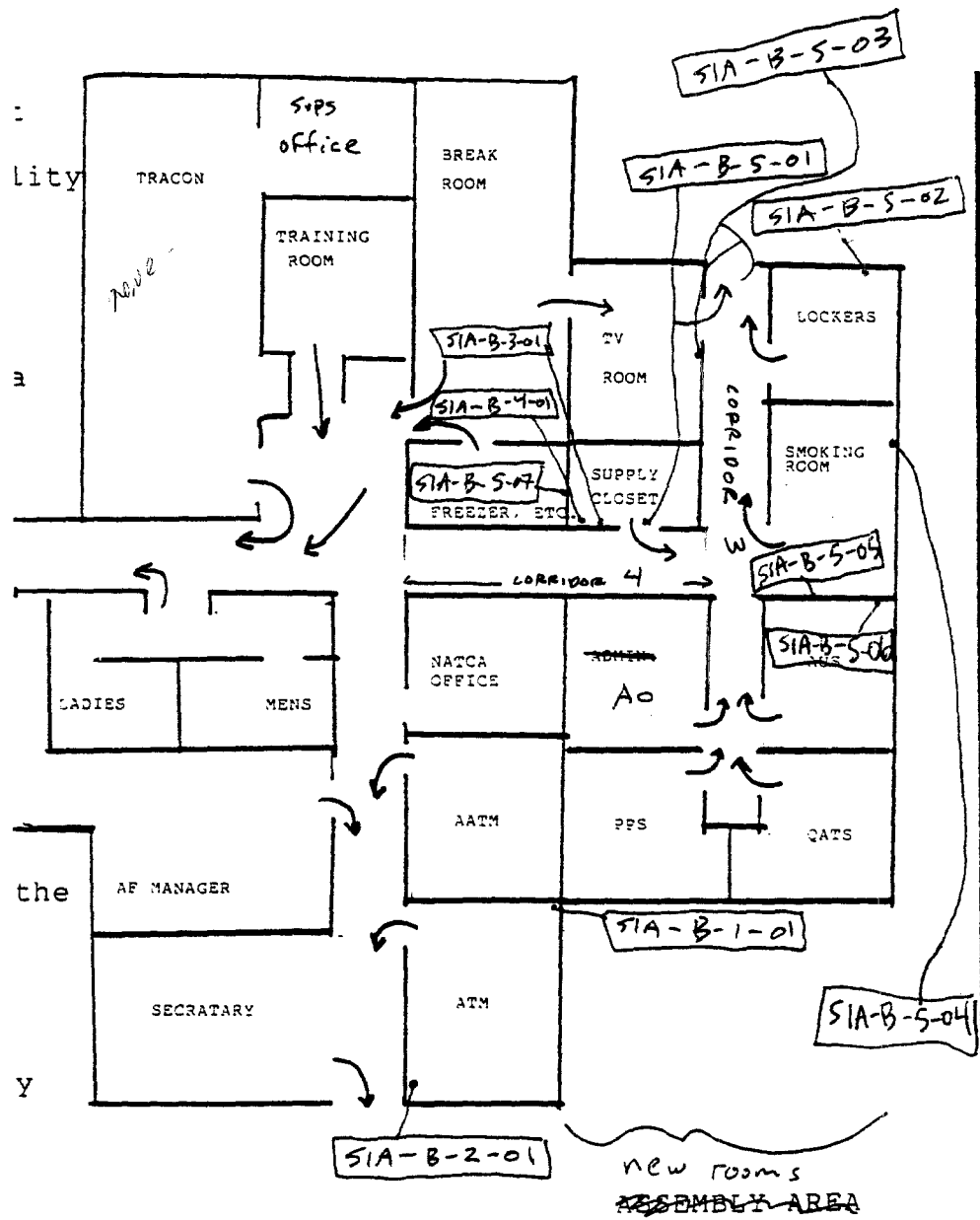
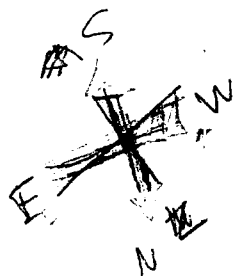
Sampled by: Mike Schindler of Prezant Associates, Inc.
Analyzed by: Cathy Honeywell Date: 08/06/97
Reviewed By: Gail Gislason Date: 08/06/97


*Gail Gislason, Laboratory Director

* If samples are not homogeneous, then subsamples of the components were analyzed separately and labeled as L1, L2,... All bulk samples are analyzed using EPA method 600/R-93/116, "Method for Determination of Asbestos in Bulk Building Materials". This report relates only to the items tested. If samples are not collected by Prezant Assoc. personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other analyses in-house and other laboratories for quality assurance and verification. This report shall not be reproduced except in full, without written approval of Prezant Assoc. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

APPENDIX B

SAMPLE LOCATIONS MAPS



07 010 : 43:00

SPOKANE TOWER EVACUATION PLAN

APPENDIX C

AIR SAMPLING RESULTS



330 6th Ave. North, Suite 200, Seattle, WA 98109
OFFICE: (206) 281 - 8858 FAX: (206) 281-8922

Airborne Asbestos Dust Analysis

(NIOSH 7400 Method)

Client: **FAA Northwest Mountain Region**
Address: **1601 Lind Avenue SW**
Renton, WA 98055

PAI Batch no.: 97-3042

Number of Samples: **5**

Blank Average = **0.25**

Project: **Spokane International Airport ATCT / Spokane, WA**

Field area (in mm²) **.008090**

Project no.: **xxxx**

Lab ID no.: **97080004**

Client's Sample no.: **FAA-SIA-01**

07/22/1997

	Time	Rate
Start	10 : 32	13.5
End	12 : 22	13.5
Minutes	110.0	Ave. 13.50
Liters		1485.0

Area

Floor 1, Engine generator room

Protection: No information given

Decon: No information given

Environment: No information given

Activities: 0' S of N wall, 3' E of W wall, 4' AFF

Pump ID: **A03**

LOD	LOQ min	LOQ max
0.002	0.026	0.337

Fibers/flds	Fibers/mm ²	Fibers/cc
6.5 / 100	7.7	0.002

Lab ID no.: **97080005**

Client's Sample no.: **FAA-SIA-02**

07/22/1997

	Time	Rate
Start	10 : 36	13.5
End	12 : 25	13.5
Minutes	109.0	Ave. 13.50
Liters		1471.5

Area

Floor 1, TRACON equipment room

Protection: No information given

Decon: No information given

Environment: No information given

Activities: 4' W of E wall, 20' S of N wall, 4' AFF

Pump ID: **A07**

LOD	LOQ min	LOQ max
0.002	0.026	0.340

Fibers/flds	Fibers/mm ²	Fibers/cc
1.0 / 100	0.9	< 0.002

Lab ID no.: **97080006**

Client's Sample no.: **FAA-SIA-03**

07/22/1997

	Time	Rate
Start	10 : 45	13.5
End	12 : 26	13.5
Minutes	101.0	Ave. 13.50
Liters		1363.5

Area

Floor 1, Supervisor's office

Protection: No information given

Decon: No information given

Environment: No information given

Activities: 0' S of N wall, 3' E of W wall, 4' AFF

Pump ID: **A12**

LOD	LOQ min	LOQ max
0.002	0.028	0.367

Fibers/flds	Fibers/mm ²	Fibers/cc
4.0 / 100	4.6	< 0.002

Sampled by **Mike Schindler**

Analyzed by **Eric Hartman**

Reviewed by **Gail Gislason**

08/05/1997

08/05/1997

Gail Gislason
Gail Gislason, Laboratory Director

Samples are analyzed in accordance with the NIOSH 7400 method. If the samples were not collected by Prezant Associates personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. The LOQ, Limits of Quantification, are the fiber concentrations, for the given volume of sampled air, above and below which results may be unreliable. The LOD, Limit of Detection, is the fibers/cc below which the results may not be confidently distinguished from background levels



330 6th Ave. North, Suite 200, Seattle, WA 98109
OFFICE: (206) 281 - 8858 FAX: (206) 281-8922

Airborne Asbestos Dust Analysis

(NIOSH 7400 Method)

Client: FAA Northwest Mountain Region
Address: 1601 Lind Avenue SW
Renton, WA 98055

PAI Batch no.: 97-3042

Number of Samples: 5

Blank Average = 0.25

Project: Spokane International Airport ATCT / Spokane, WA

Field area (in mm²) .008090

Project no.: xxxx

Lab ID no.: 97080007

Client's Sample no.: 722-FB-01

07/22/1997

	Time	Rate
Start	0 : 00	0.0
End	0 : 00	0.0
Minutes	0.0	Ave. 0.00
Liters		0.0

Field Blank

Protection: No information given
Decon: No information given
Environment: No information given

LOD 0.000 LOQ min 0.000 LOQ max 0.000

Fibers/flds 0.0 / 100

Fibers/mm² 0.0

Fibers/cc *****

Lab ID no.: 97080008

Client's Sample no.: 722-TB-01

07/22/1997

	Time	Rate
Start	0 : 00	0.0
End	0 : 00	0.0
Minutes	0.0	Ave. 0.00
Liters		0.0

Trip Blank

Protection: No information given
Decon: No information given
Environment: No information given

LOD 0.000 LOQ min 0.000 LOQ max 0.000

Fibers/flds 0.5 / 100

Fibers/mm² 0.0

Fibers/cc *****

Sampled by Mike Schindler
Analyzed by Eric Hartman
Reviewed by Gail Gislason

08/05/1997

08/05/1997


Gail Gislason, Laboratory Director

Samples are analyzed in accordance with the NIOSH 7400 method. If the samples were not collected by Prezant Associates personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. The LOQ, Limits of Quantification, are the fiber concentrations, for the given volume of sampled air, above and below which results may be unreliable. The LOD, Limit of Detection, is the fibers/cc below which the results may not be confidently distinguished from background levels.

APPENDIX D

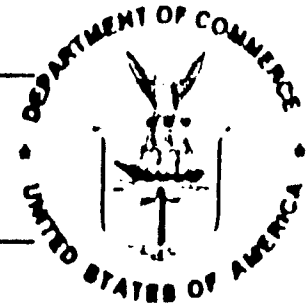
CERTIFICATIONS

United States Department of Commerce
National Institute of Standards and Technology



ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation



PREZANT ASSOCIATES, INC.
SEATTLE, WA

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for

BULK ASBESTOS FIBER ANALYSIS

December 31, 1997

Effective through

For the National Institute of Standards and Technology
NVLAP Lab Code: 101886-0

Certificate of Completion

This is to certify that
Mike Schindler
has satisfactorily completed
3 days training as a

Building Inspector

in compliance with TSCA Title II/AHERA Accredited

Feb 24 - 26, 1997

Conducted at: Prezant Associates
Seattle WA


Training Administrator

Exp. Date: Feb 26, 1998



Prezant Associates, Inc. • 330 Sixth Avenue North, Suite 200 • Seattle, Washington 98109 • (206) 261-8858



Cert. # 97-0653

Exam Date: Feb 26, 1997